

FIG. 1
Prior Art

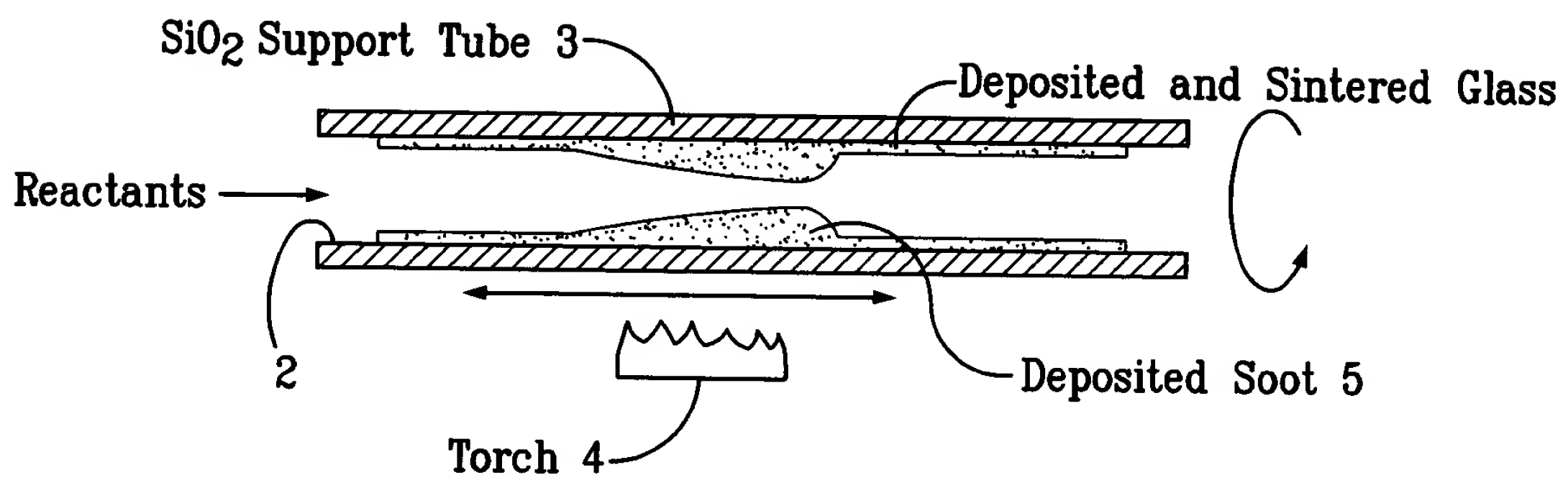


FIG. 2
Prior Art

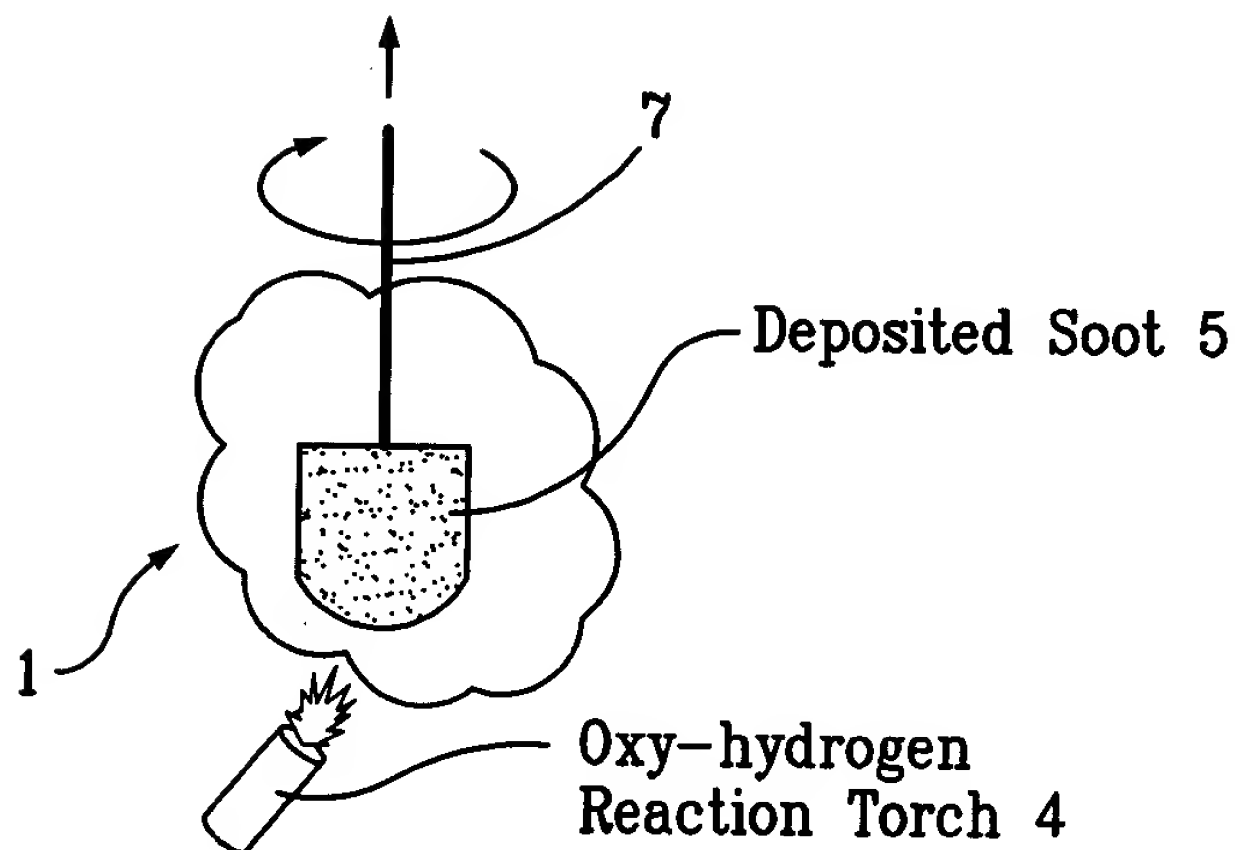
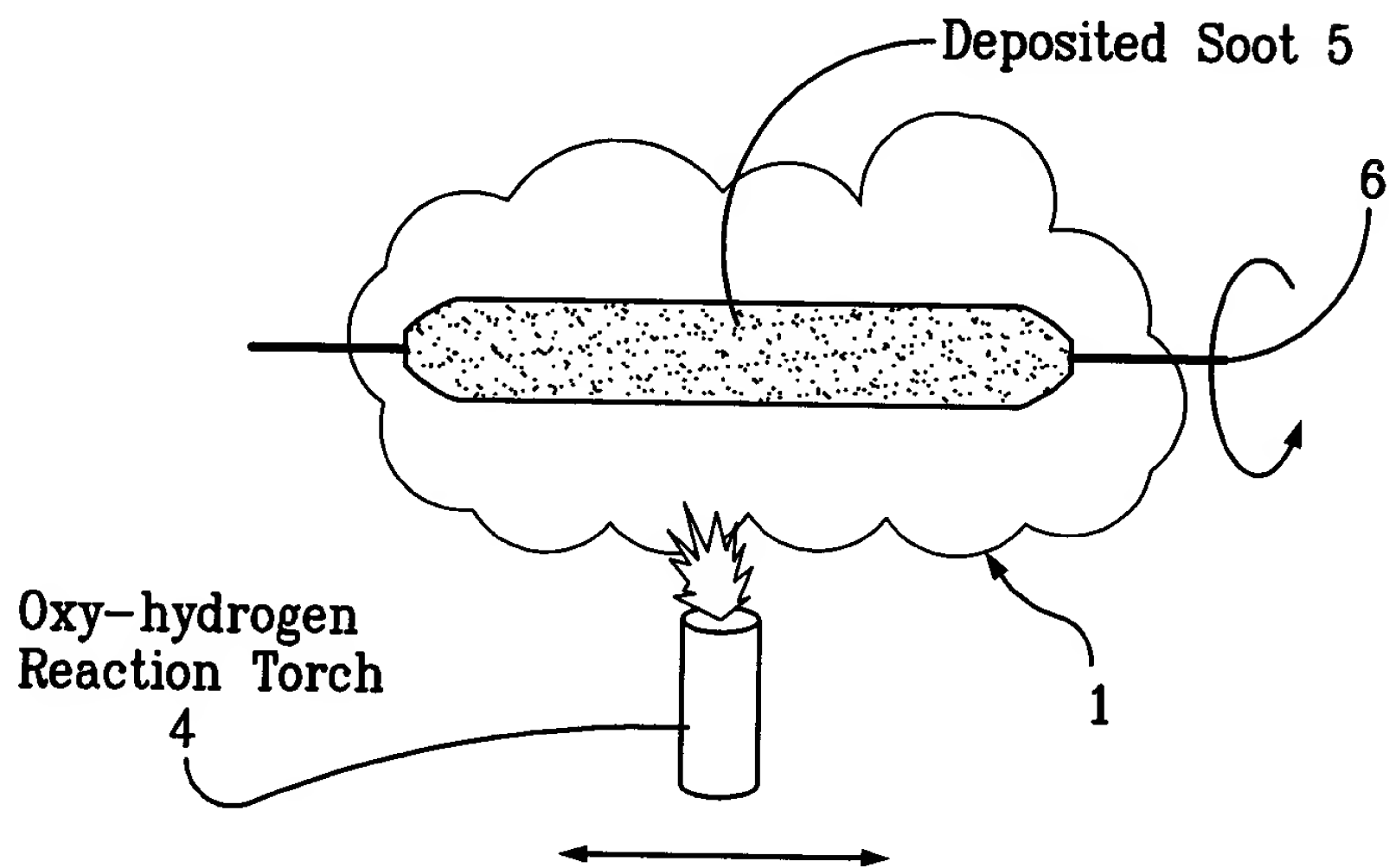
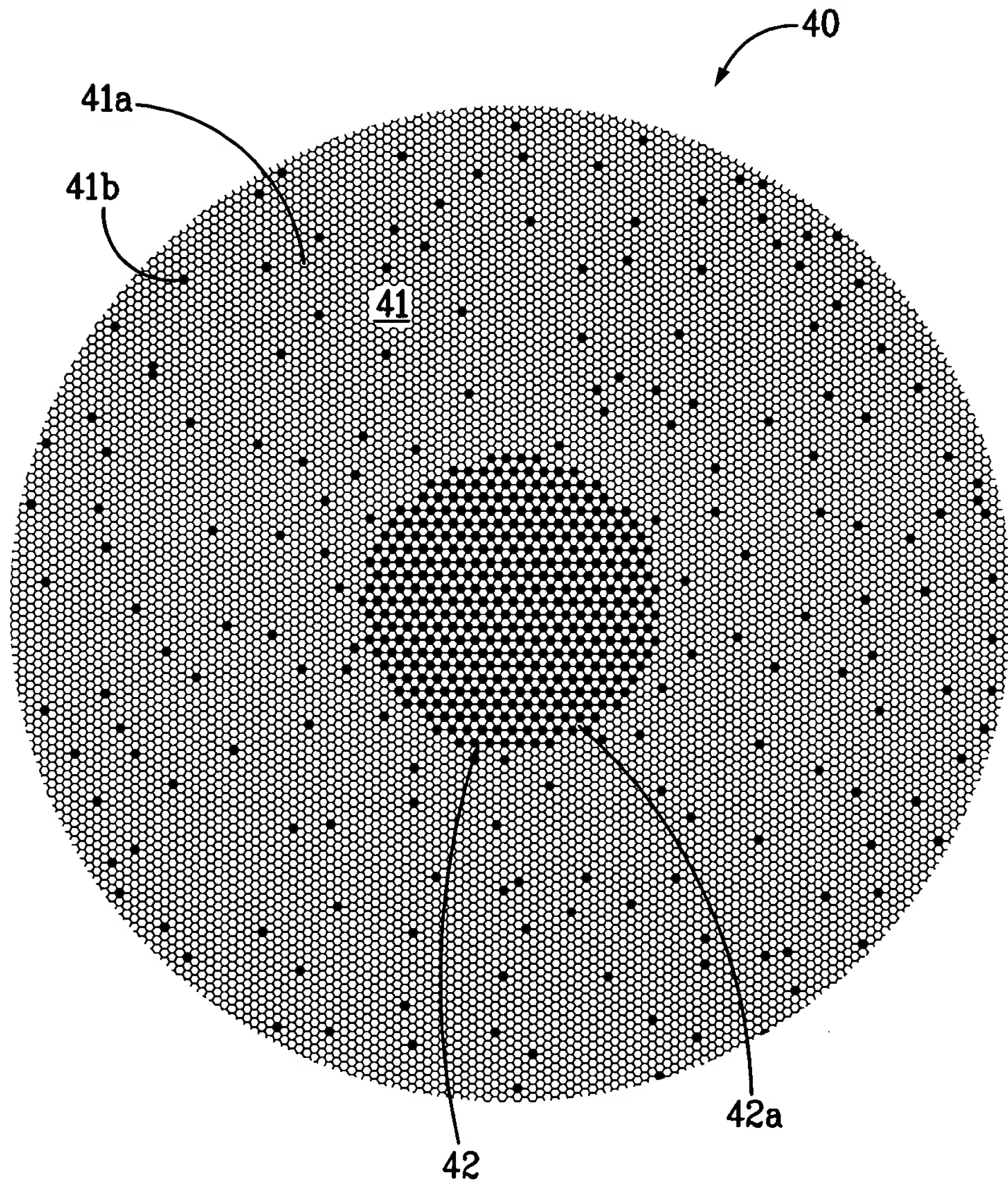


FIG. 3
Prior Art

FIG. 4



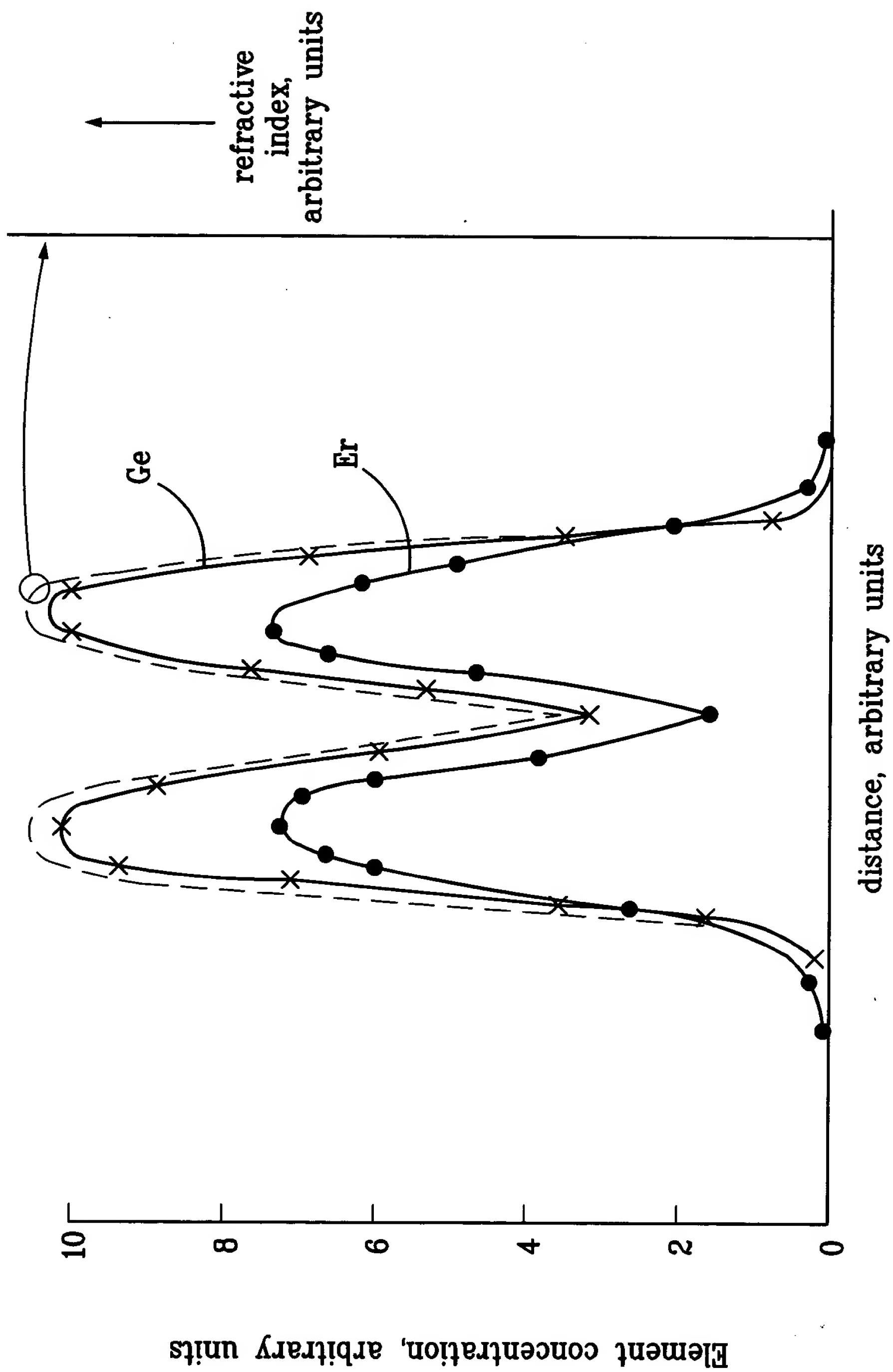
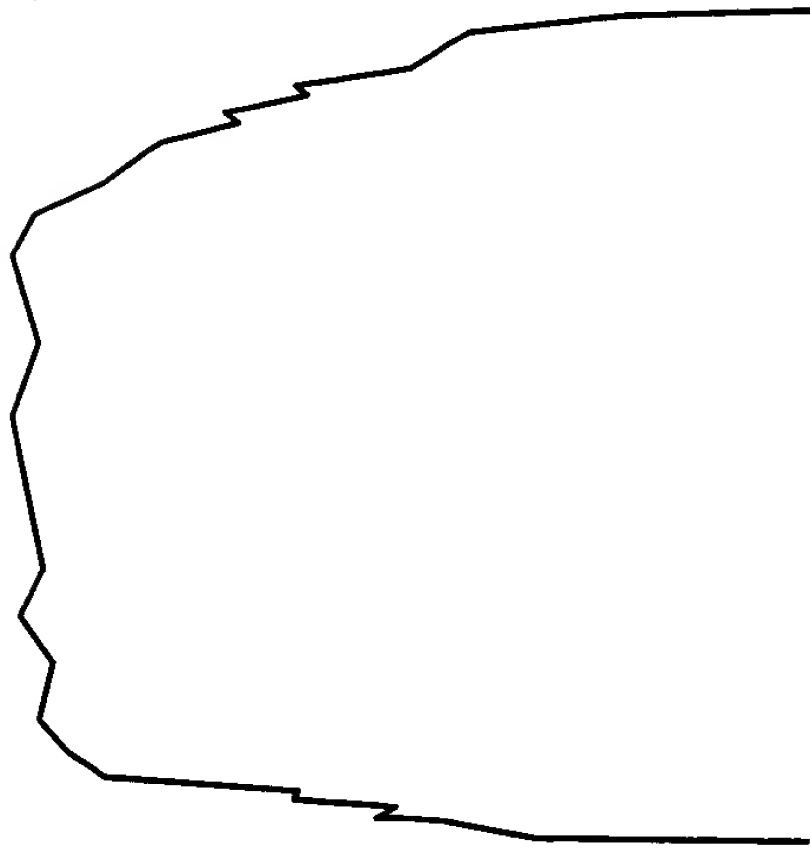
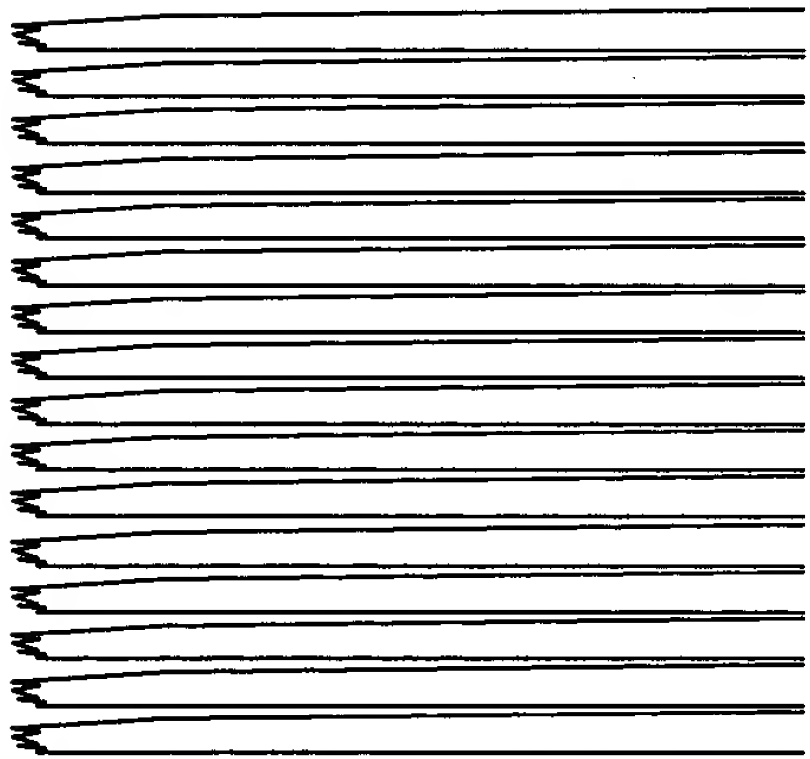


FIG. 5



Index (or dopant) of core or cladding that has suffered the effects of burnout.

FIG. 6A



Index (or dopant) profile of a group of such rods bundled together.

FIG. 6B



Effective index (or dopant) profile seen by mode field in fiber fabricated from such a preform bundle.

FIG. 6C

FIG. 7

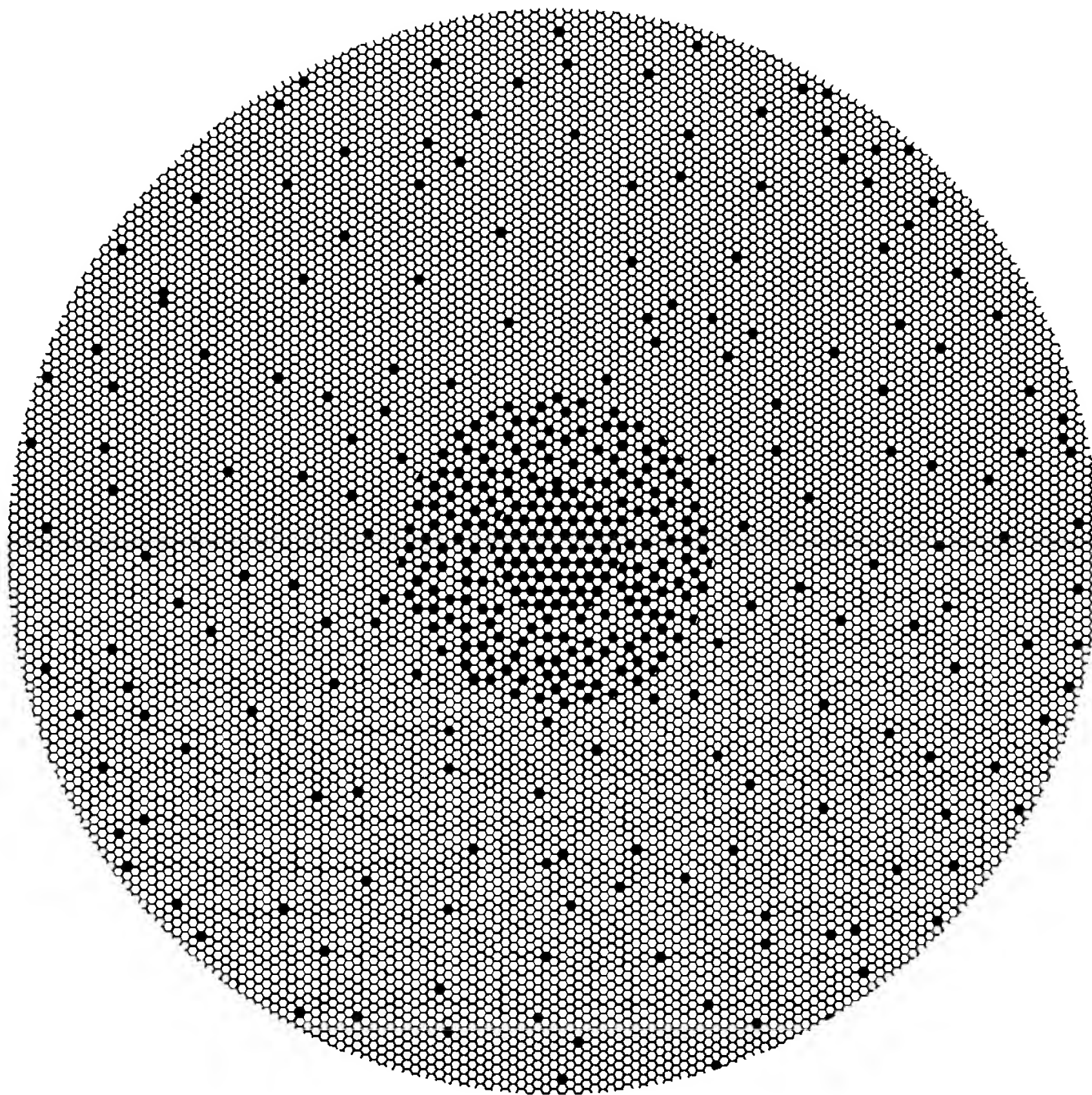
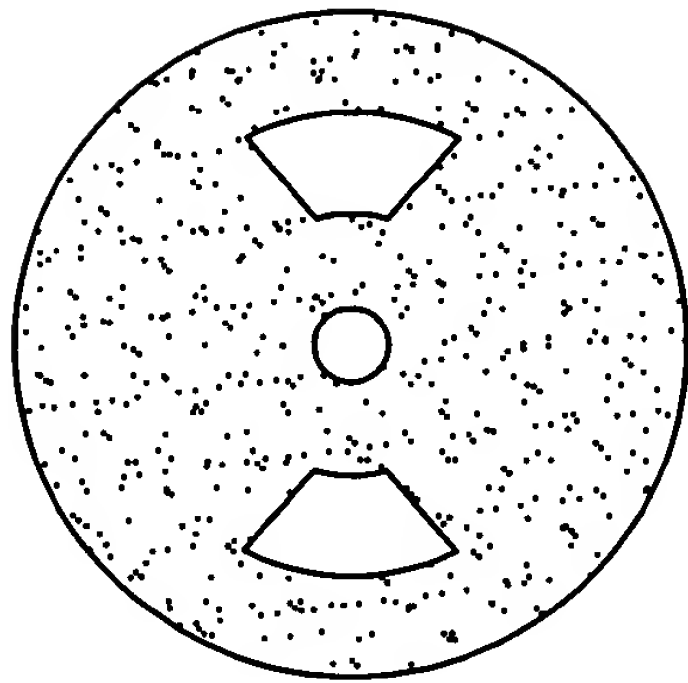
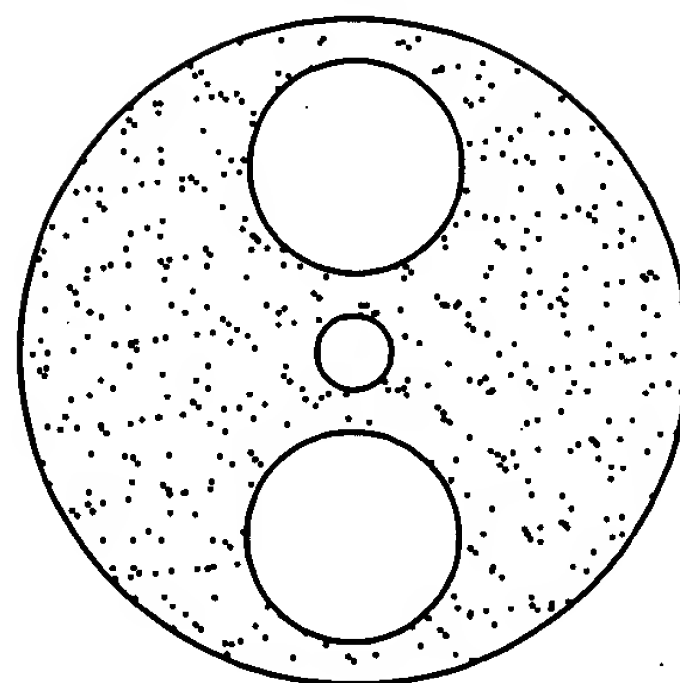


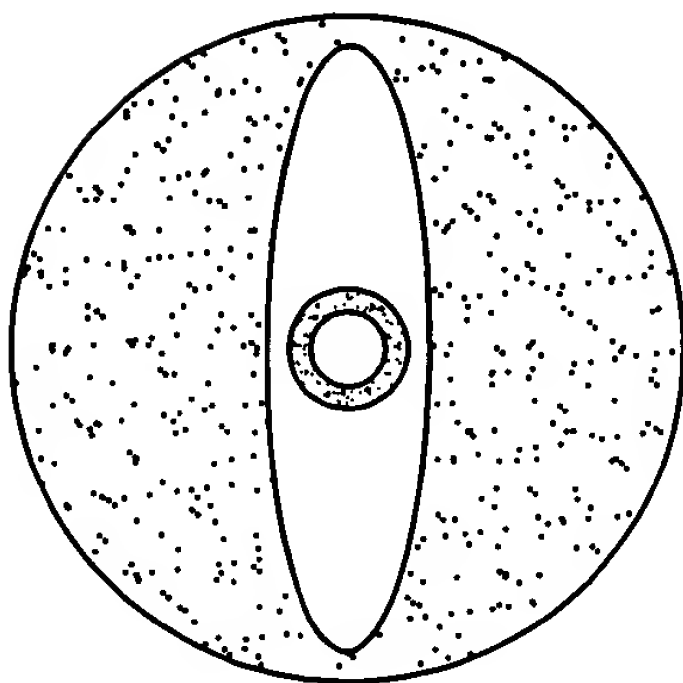
FIG. 7



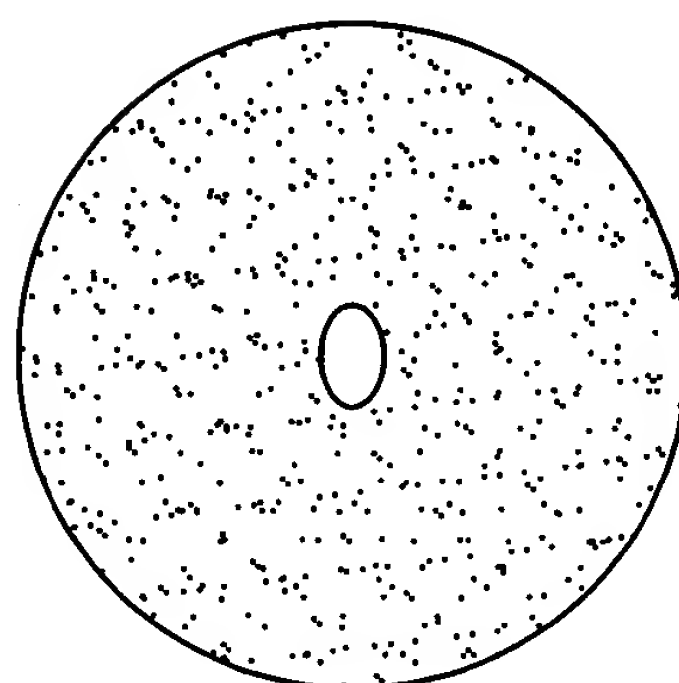
Bow-tie
FIG. 8A
Prior Art



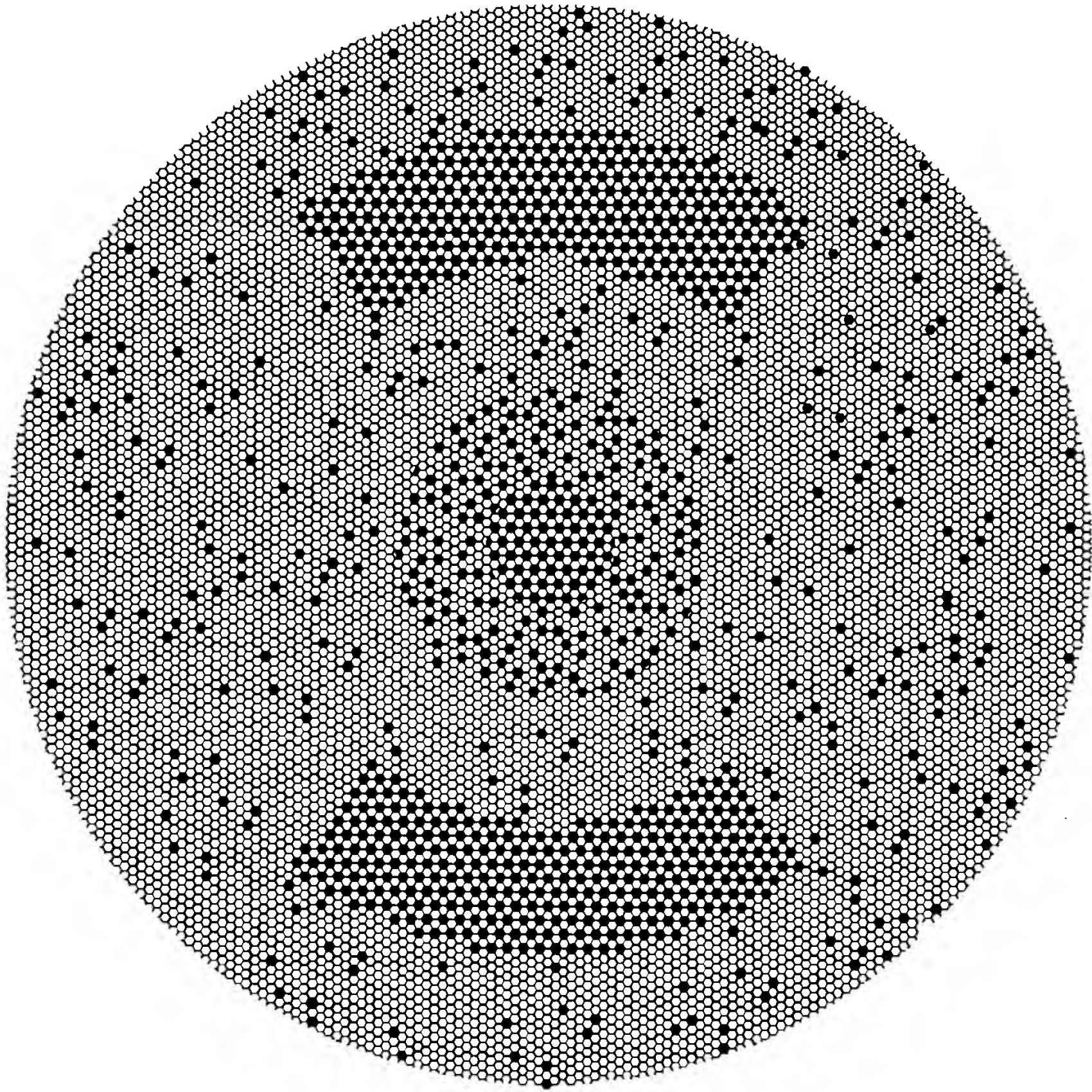
Panda
FIG. 8B
Prior Art



Oval-Inner Clad
FIG. 8C
Prior Art



Oval Core
FIG. 8D
Prior Art

[illegible]

core rods 1003
1000
1002a, 1002b
cladding rods

1001 cladding tube

The empty cladding tube is
packed full of cladding rods,
randomly placed in appropriate
high-index/low-index ratio

The protruding cladding rods are
pulled from bundle and replaced
with core rods

FIG. 10A

preform template 1004

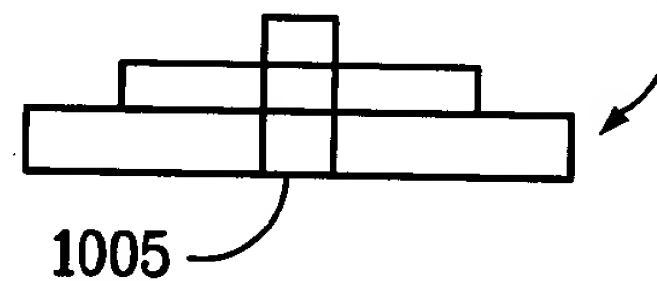


FIG. 10B

preform template 1004

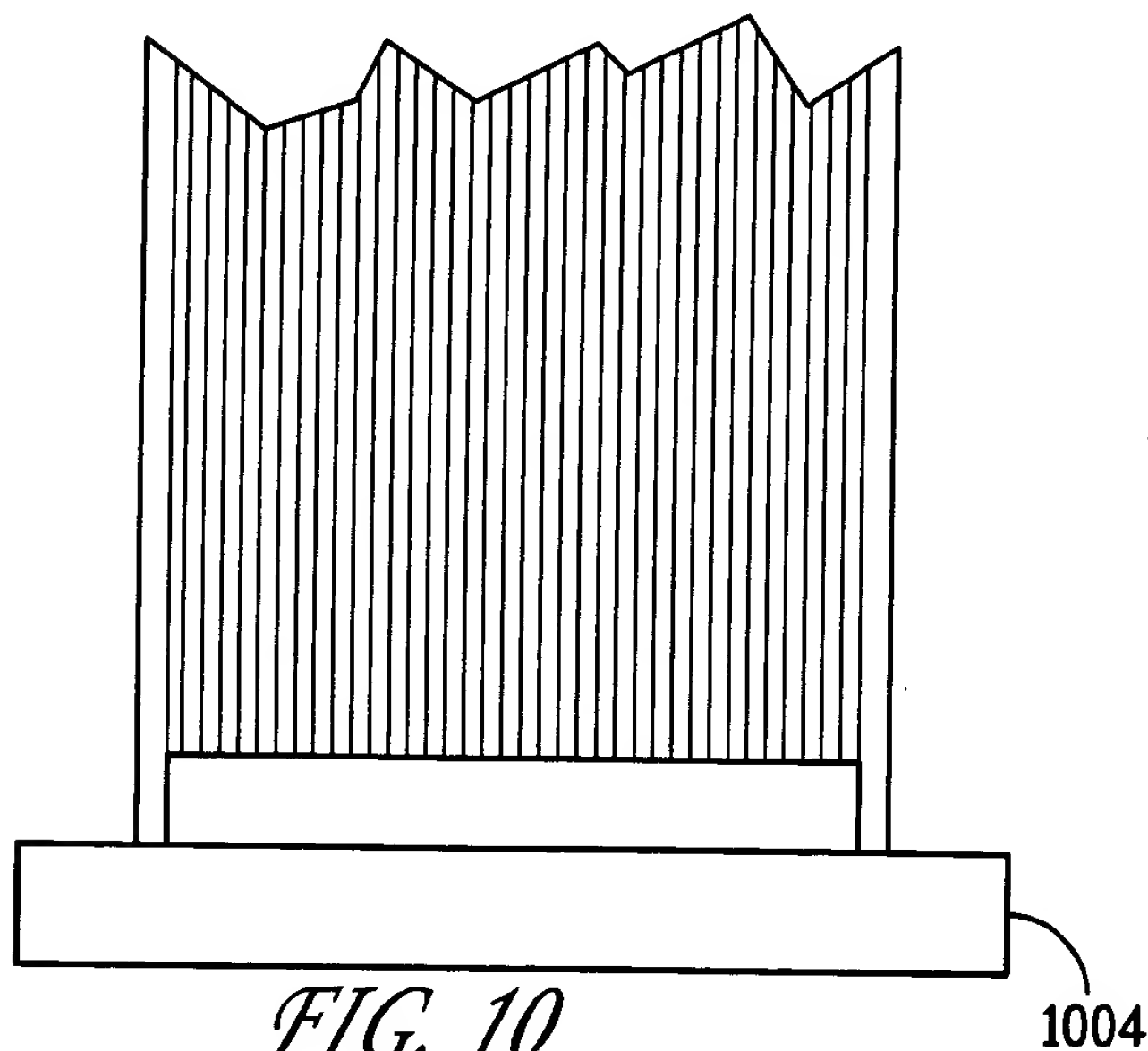
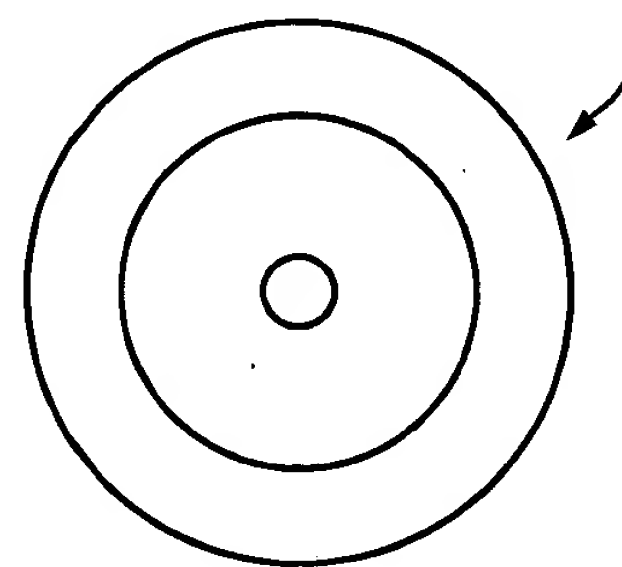
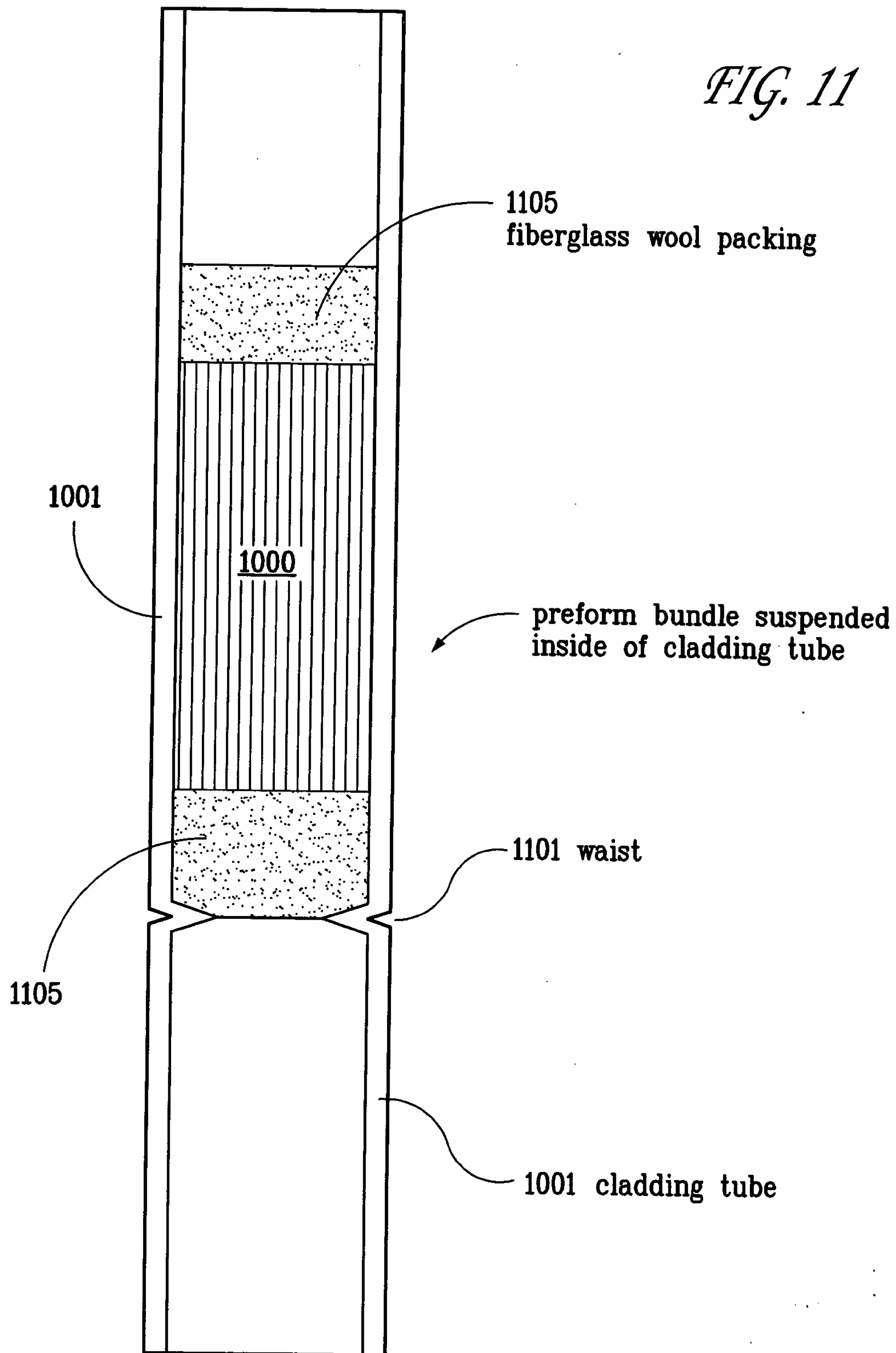


FIG. 11



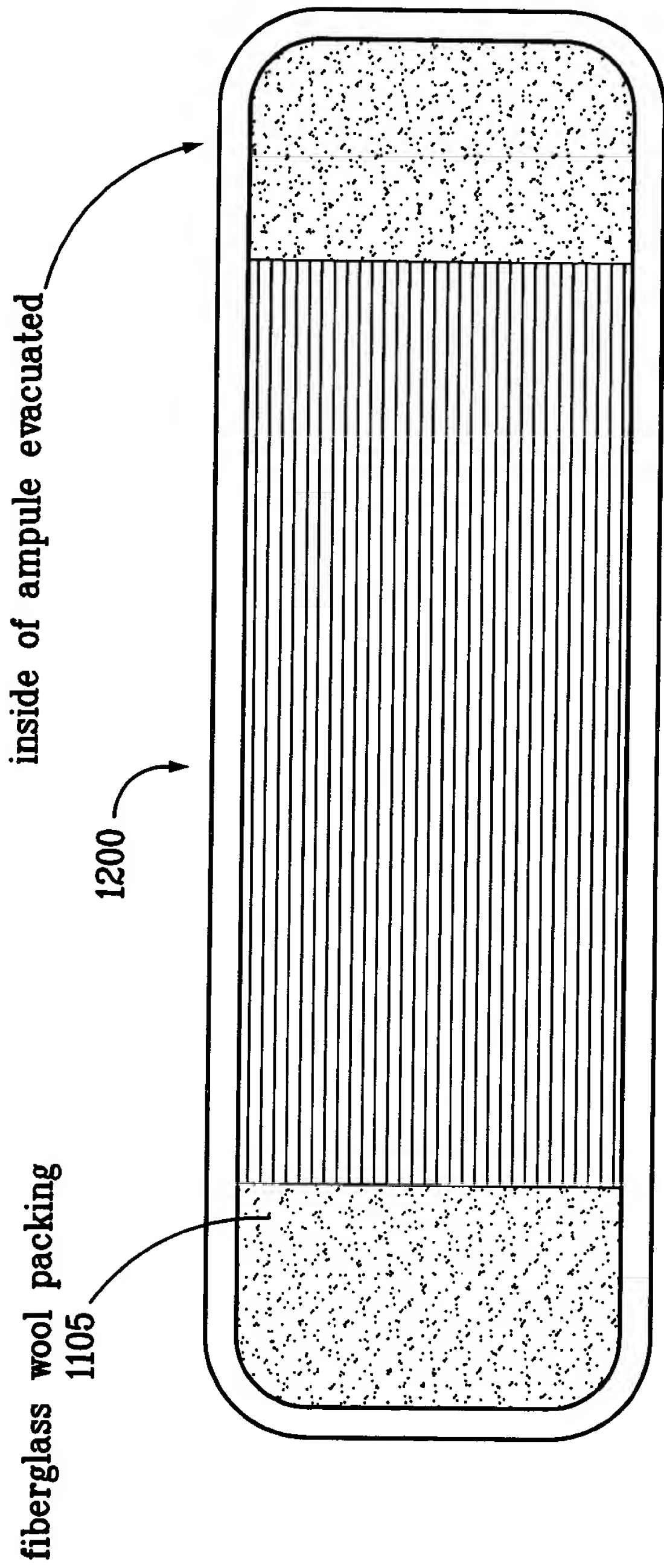


FIG. 12

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1401

vapor stream from conventional
MCVD gas delivery system

FIG. 14

collection tube 1402

tube furnace
1403

1404

coolant bath

1405

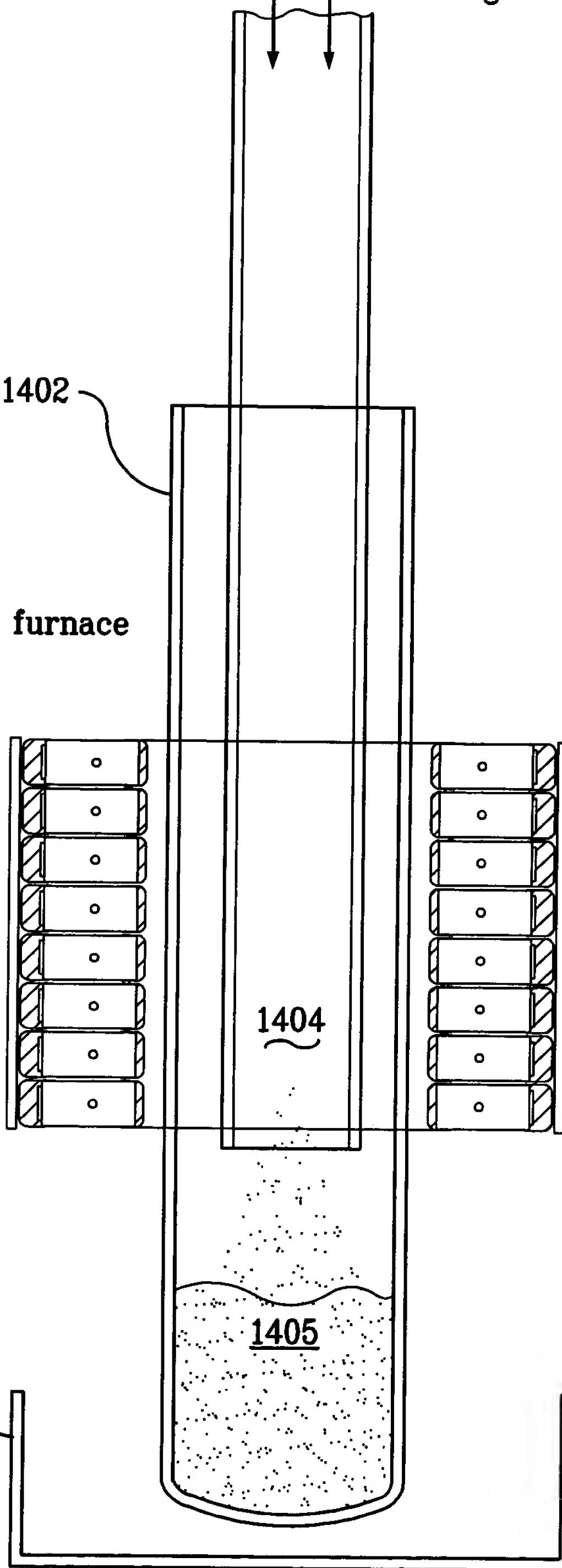
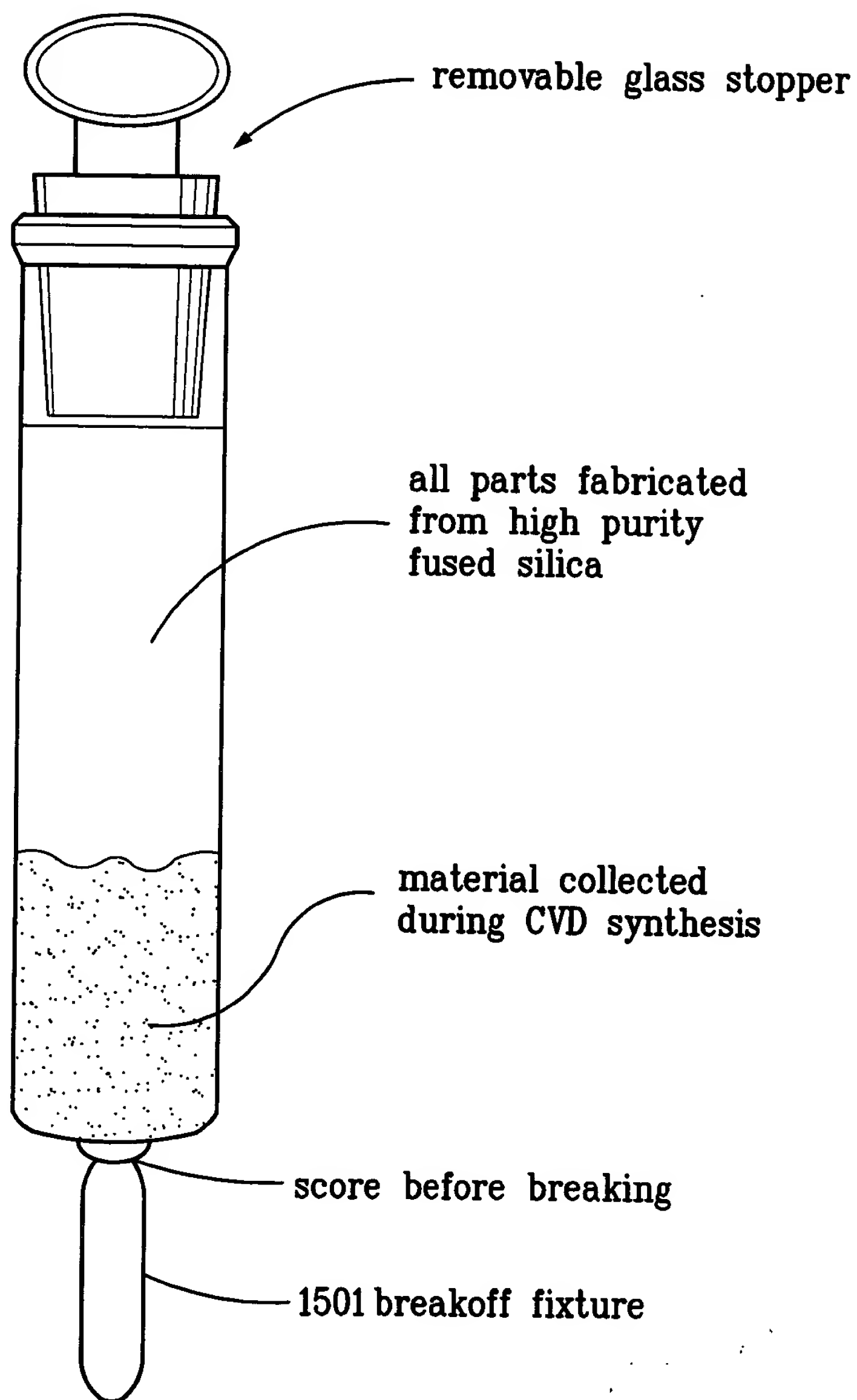


FIG. 15



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